

Before & After Videotapes & Special Events Data

Preliminary IIB Deliverable

C. Interim Report On Intersection Delay
EECS - ITS LAB - FT95 - 012

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MICHIGAN STATE UNIVERSITY

August 25, 1994

Mr. James Barbaresso
Oakland County Road Commission
31001 Lahser Road
Beverly Hills, MI 48025

RE: Phase II-A Deliverables

Dear Mr. Barbaresso:

Two of the deliverables under our sub-contract with the University of Michigan were videotapes of the before and after conditions at selected intersections, and data for the special event analysis. These data have been collected and are maintained in the project file for further analyses.

The attached listing of videotapes presents the status of the data. All the tapes have now been reduced and the data entered into computer files. Graphs of delay per approach have been constructed from these data. The table contains information on the corridor delay data as well as the intersection data.

The data collected for the purpose of conducting an analysis of SCATS for special events are also maintained in the project files. The attached table and graphs showing the iso-congestion lines were derived from these data. No other analysis has been conducted, because the data are for dissimilar events: Lions Football games on Sunday afternoons versus World Cup Soccer matches at various times and days. Therefore, we should not read too much into these results.

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We look forward to continuing the evaluation of FAST-TRAC in Phase II-B of the project.

Very truly yours,

William C. Taylor, Ph.D., P.E.
Professor

cc: Steve Underwood

Attachments
WCT/bar

Table 1: Before Data (INTERSECTIONS)

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
John R & Big Beaver	Monday 10 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Wednesday 12 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Thursday 20 May 93	Morning	Completed	Completed	Completed
		Afternoon1	Completed	Completed	Completed
	Friday 21 May 93	Morning	Completed	Completed	Completed
Crooks & South Blvd	Tuesday 11 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Wednesday 12 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Wednesday 19 May 93	Morning	Completed	Completed	Completed
		Afternoon1	Completed	Completed	Completed
John R & Maple	Thursday 13 May 93	Afternoon2	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 14 May 93	Afternoon2	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Saturday 15 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Monday 17 May 93	Afternoon2	Completed	Completed	Completed
		Evening	Completed	Completed	Completed

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
John R & Maple (cont)	Wednesday 26 May 93	Afternoon2	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
Rochester & South Blvd.	Tuesday 18 May 93	Afternoon2	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Thursday 27 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
Maple & Heidi	Monday 24 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Tuesday 25 May 93	Afternoon2	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
Rochester & Avon	Wednesday 06 July 94	Evening	Completed	Completed	Completed
	Thursday 07 July 94	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
Rochester & Auburn	Thursday 07 July 94	Evening	Completed	Completed	Completed
	Friday 08 July 94	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed

Table 2: After Data (INTERSECTIONS)

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
Maple & Heidi	Tuesday 09 Nov 93		Completed	Completed	Completed
			Completed	Completed	Completed
John R & Maple	Wednesday 01 June 94	Evening	Completed	Completed	Completed
	Thursday 02 June 94	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday	Morning	Completed	Completed	Completed
	03 June 94	Afternoon	Completed	Completed	Completed

Table 1: Before Data (CORRIDOR)

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
NB John R	Monday 17 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Tuesday 18 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Wednesday 19 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Thursday 20 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 21 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
SB John R	Monday 17 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Tuesday 18 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Wednesday 19 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Thursday 20 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 21 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
NB Coolidge	Tuesday 18 May 93	Morning	Completed	Completed	Completed
	Wednesday 19 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 21 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Tuesday 25 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Wednesday 26 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
SB Coolidge	Tuesday 18 May 93	Morning	Completed	Completed	Completed
	Wednesday 19 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 21 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Tuesday 25 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Wednesday 26 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
EB Wattles	Thursday 13 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Friday 14 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Monday 17 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Tuesday 25 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Wednesday 26 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
WB Wattles	Thursday 13 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Friday 14 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Monday 17 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Tuesday 25 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Wednesday 26 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
EB Maple	Monday 17 May 93	Afternoon	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
WB Maple	Thursday 13 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed
	Friday 14 May 93	Morning	Completed	Completed	Completed
		Afternoon	Completed	Completed	Completed

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
NB Rochester	Wednesday 06 July 94	Evening	Completed	Completed	Completed
	Thursday 07 July 94	Morning	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 08 July 94	Morning	Completed	Completed	Completed
SB Rochester	Wednesday 06 July 94	Evening	Completed	Completed	Completed
	Thursday 07 July 94	Morning	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 08 July 94	Morning	Completed	Completed	Completed

Table 2: After Data (CORRIDOR)

Intersection	Date	Time Period	Video Reduction	Data Entry	Graphing
NB John R	Wednesday 01 June 94	Evening	Completed	Completed	Completed
	Thursday 02 June 94	Morning	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 03 June 94	Morning	Completed	Completed	Completed
SB John R	Wednesday 01 June 94	Evening	Completed	Completed	Completed
	Thursday 02 June 94	Morning	Completed	Completed	Completed
		Evening	Completed	Completed	Completed
	Friday 03 June 94	Morning	Completed	Completed	Completed

COMPARISON ON CONGESTION DURATION SCATS and NON-SCATS

INTERSECTION	LENGTH OF CONGESTION (Min)					
	NON-SCATS		SCATS			
	1	2	1	2	3	4

NORTH OF THE SILVER DOME

Opdyke and University	40	38	69	47	48	41
Opdyke and Walton	6	n/a	43	3	38	46

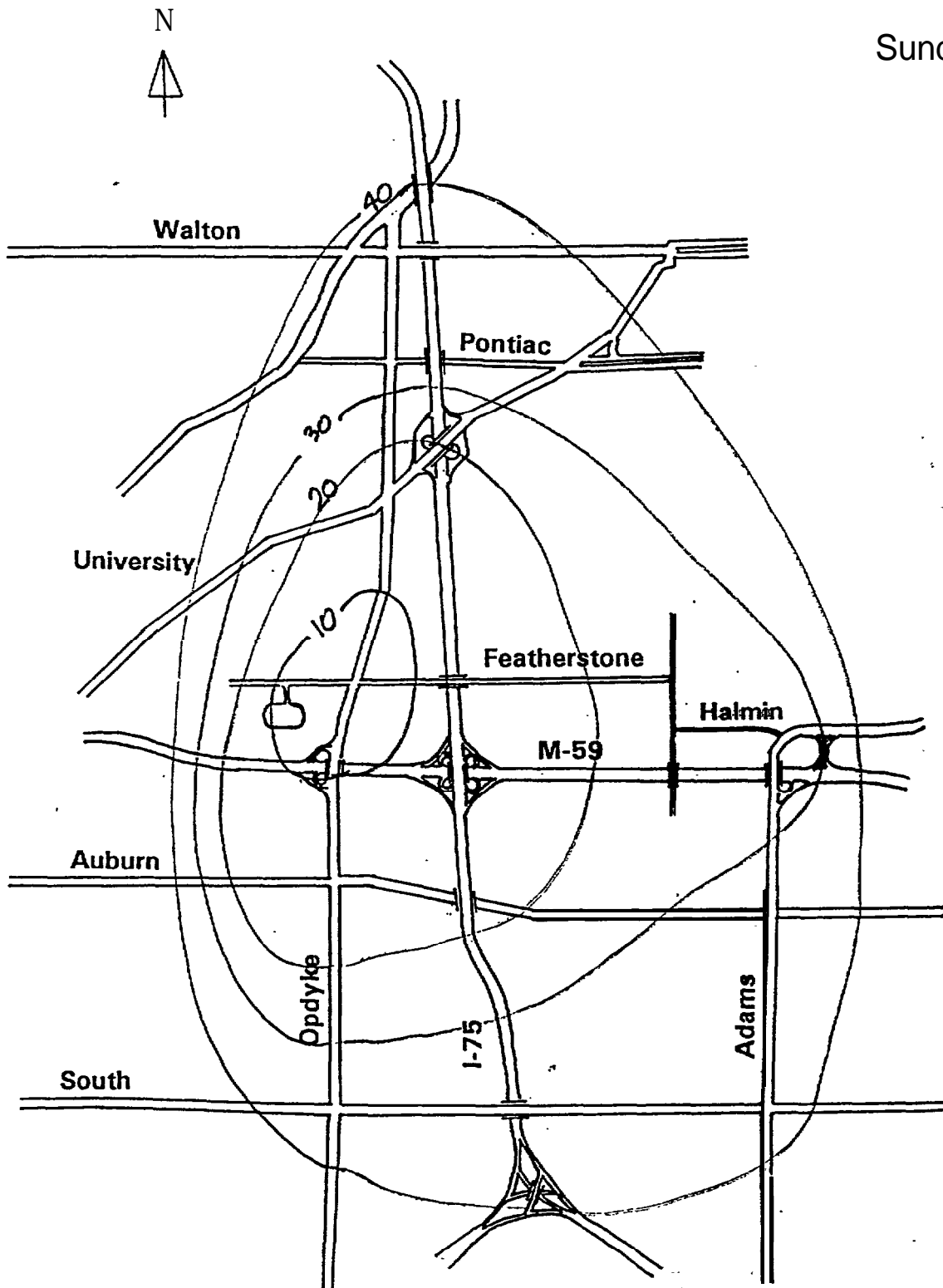
SOUTH OF THE SILVER DOME

Opdyke and Auburn	18	n/a	37	66	45	39
Opdyke and South	72	59	n/a	n/a	51	30
Adams and Auburn	5	n/a	70	51	9	7
Adams and South	n/a	5	40	16	11	28

NON-SCATS

Football Game

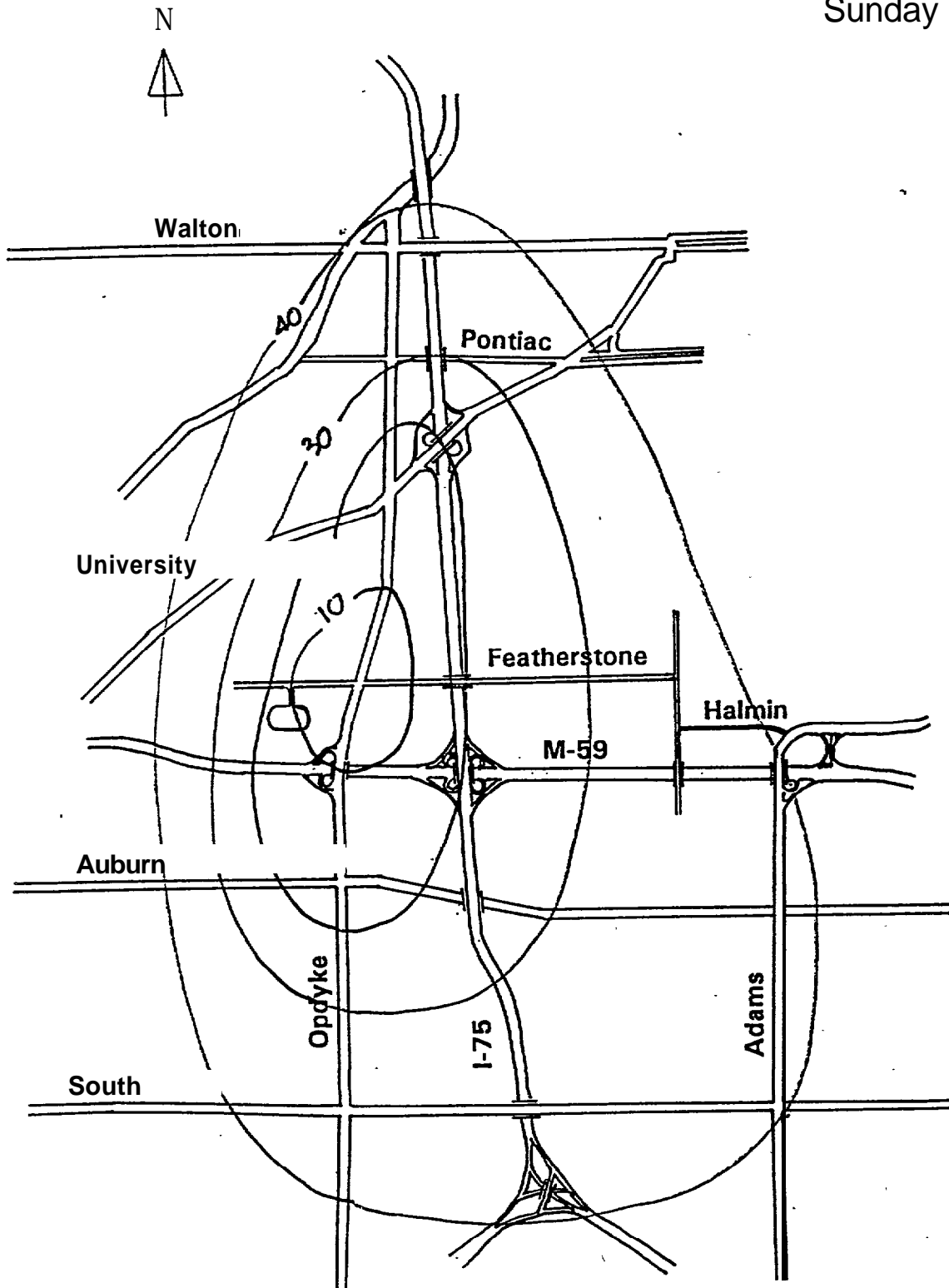
Sunday 5



NON - SCATS

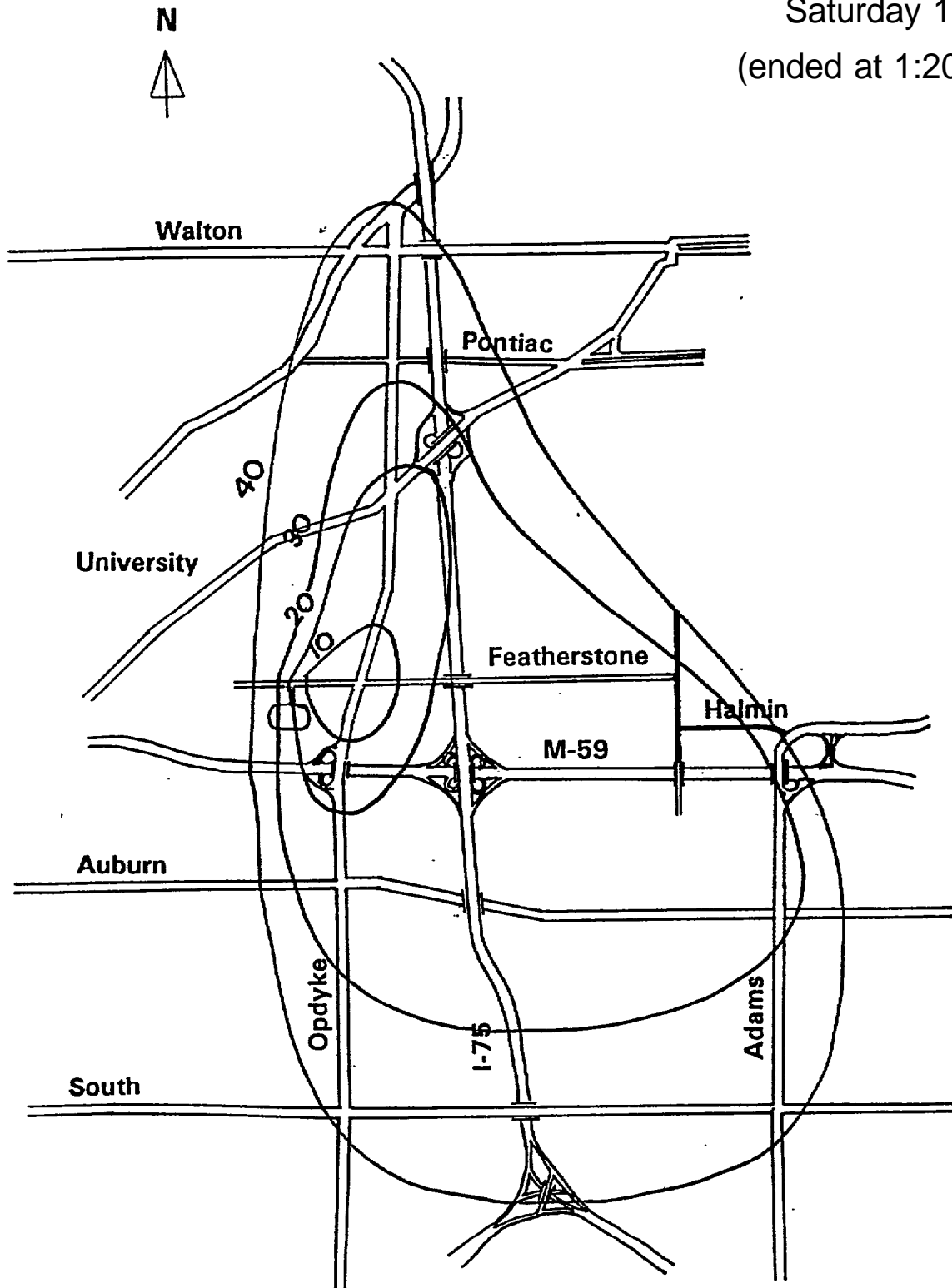
Football Game

Sunday 7



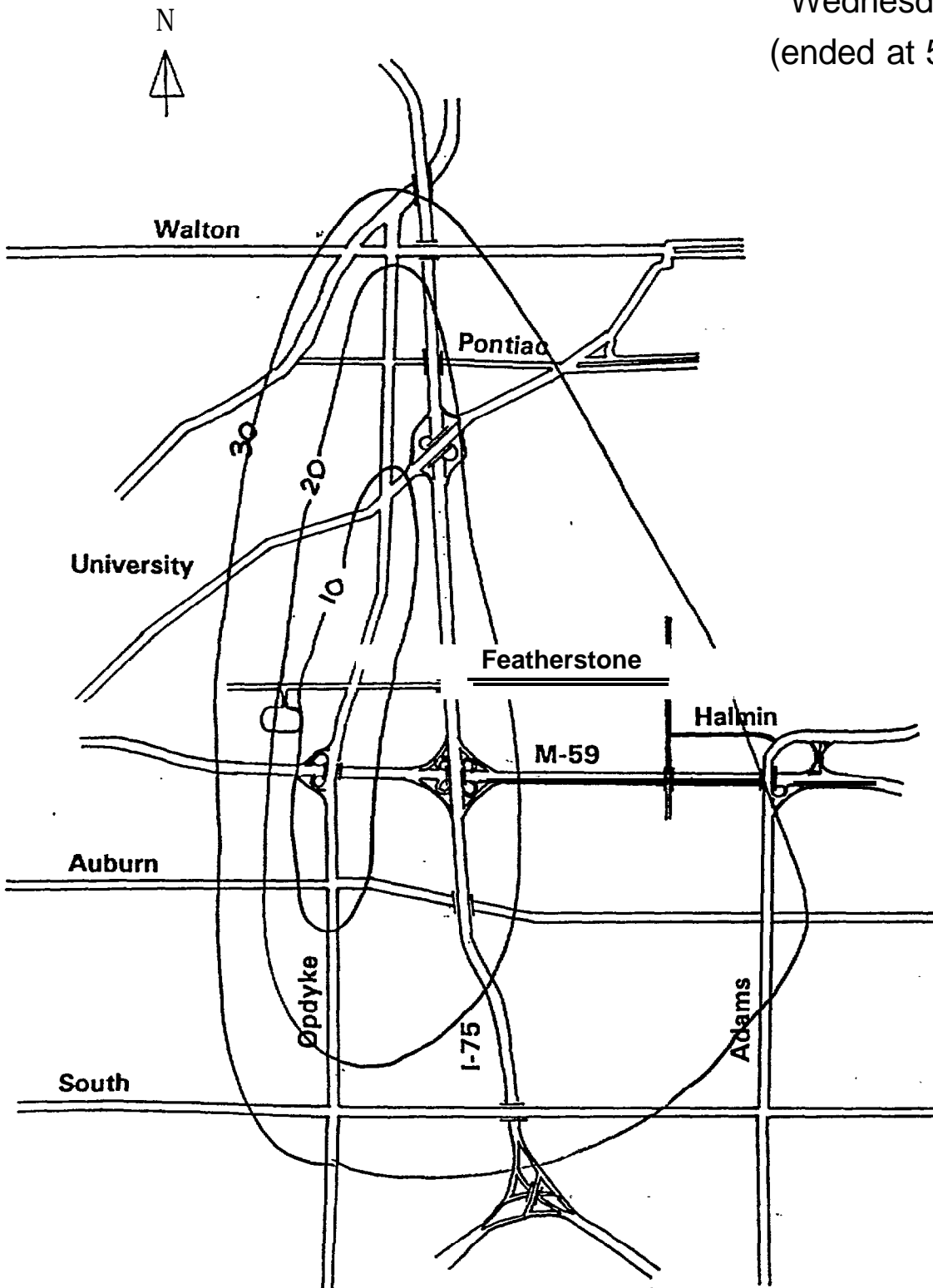
SCATS

World Cup Day 1
Saturday 18
(ended at 1:20 pm)



SCATS

World Cup Day 2
Wednesday 22
(ended at 5:50 pm)



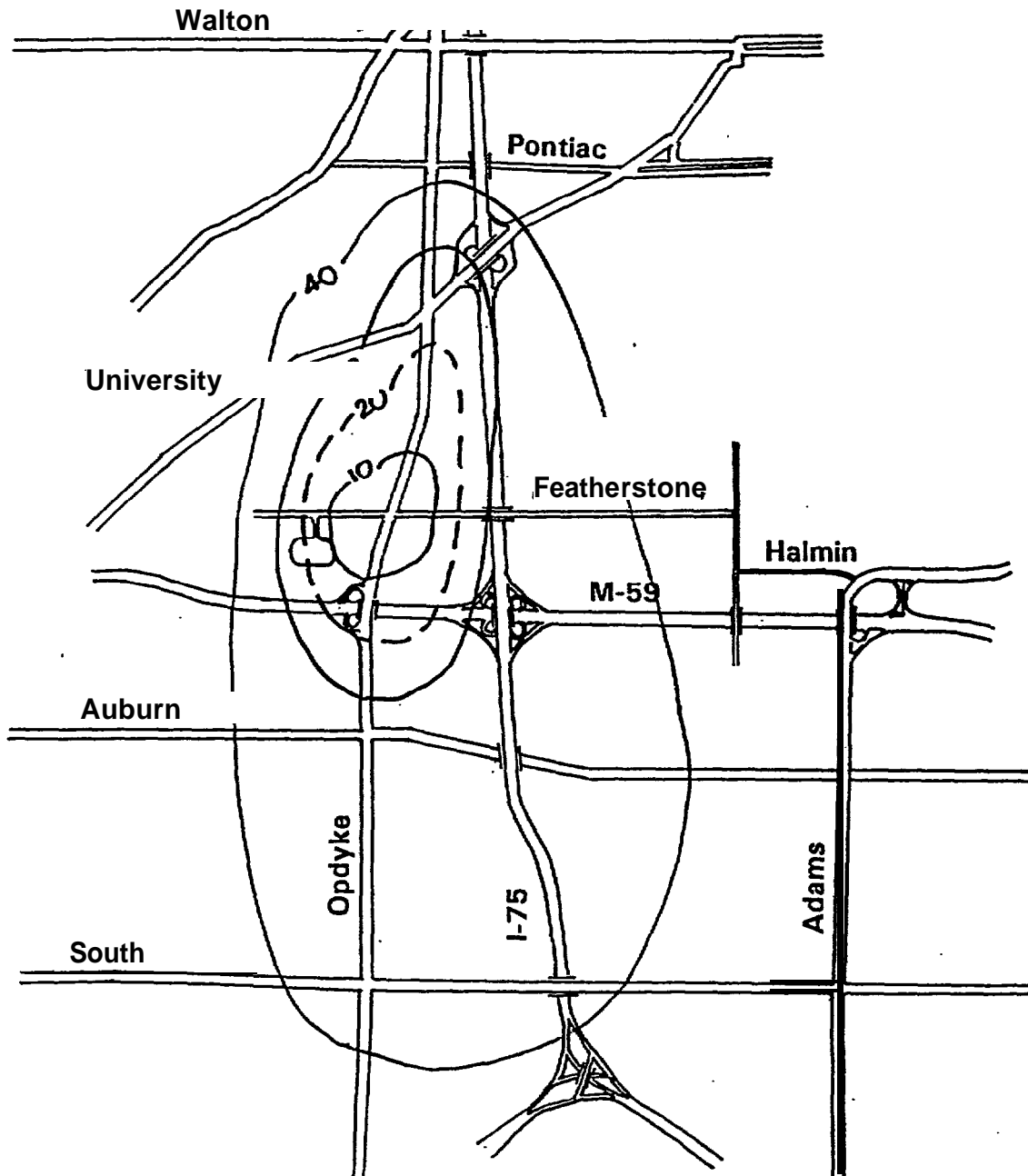
SCATS

N

World Cup Day 3

Friday 24

(ended at 9:20 pm)



SCATS

World Cup Day 4
Tuesday 28
(ended at 5:50 pm)

